

# Aron Teh

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## 📁 Professional Experience

### Amazon

Nov 2022 – present

Software Engineer, Prime Video

London, United Kingdom

- Extended **React** and **TypeScript** component functionality to support right-to-left layout. Among several contributions, developed the complex multi-direction navigation strategy handling all user input logic, and the global application state logic relied on by all components across the Prime Video application.
- Designed and developed performant **SolidJS** components to integrate seamlessly with native React code.
- Migrated application metrics and alarm monitoring from legacy tool to a structured, predictable platform.
- Communicated and resolved customer-impacting high severity **on-call incidents**, using **AWS CloudWatch** and an **Elasticsearch**-powered platform to isolate and roll back problematic commits and deployments.
- Onboarded 2 new engineers during eighth week of tenure in absence of experienced team members.

### THG

Sep 2021 – Oct 2022 | United Kingdom

Software Engineer

- Built **10** robust and reusable **Angular (TypeScript)** components, refactored from repetitive code logic within a customer-facing content management system. Facilitated library onboarding for **3** internal teams.
- Collaborated with UX designers to develop complex **Angular user interfaces**, used by **100** external clients.
- Developed and maintained a **GraphQL API** utilising **Java**, **Gradle** and **Spring backend** technologies.
- Created and owned entire team's **documentation**, vastly improving new engineer onboarding experience.

## 🔧 Notable Technical Projects

### SkyStory

- Dynamically themed, responsive progressive web application (**PWA**) where users query live and forecast weather information, utilising a third-party **REST API** service. Built with **Angular**, **Material** and **Tailwind**.
- Integrated **Firebase authentication** and **Firestore NoSQL database** saves queries for authenticated users.

### NanoNote

- Lightweight and responsive **Angular** application for sticky notes, secured with **Firebase authentication**.
- Users can create, manage, update, sort and categorise unlimited notes in an intuitive, minimalistic UI.

### TurboFile


- Responsive and multi-themed **React** application where users can upload and share files within seconds.
- Additional features to view, download and manage files are unlocked for users authenticated with Google.

## 🎓 Education

Imperial College London

2017 – 2021 | London, United Kingdom

MEng Aeronautical Engineering, 2:1 (69.6%)

- Master's Thesis  : Explored a **Python** implementation and solution to the sparse conic optimisation problem, using the Alternating Direction Method of Multipliers.
- Key Modules: **High Performance Computing**, Mathematics, Numerical Analysis, Optimisation, Finance.


## 🔧 Technical Skills

HTML | CSS | JavaScript | TypeScript | Python | SQL | React (v18) | Next.js (v13) | Angular  
Firebase (v10) | Git | Tailwind | npm | Jest | REST | Testing (Unit, Integrated, E2E) | RxJS  
GraphQL | AWS | Continuous Integration | Continuous Deployment | Docker | Kubernetes

## 🌐 Languages

English (Native) | Chinese (Advanced) | Spanish (Beginner) | Cantonese (Beginner)

## 🎮 Interests

**Chess**  (Youngest Malaysia National Chess Champion (2013); FIDE Master (International Title); World Chess Olympiad Participant (Norway 2014); President of Imperial College London Chess Club, led team to win 1st place in every competition, most club members in recent history (2018-2019); Private Teacher)

**Quantitative Finance** | **Machine Learning**  | **Sports** (Swimming, Table Tennis, Badminton) | **Music**